

ABSTRACT

#1 A hybrid motor vehicle utilizing electric motor propulsion prior to cruise mode detection condition and internal combustion engine propulsion during cruise mode. The hybrid motor vehicle utilizing an <sup>information</sup> ~~infomation~~ super highway for system diagnostics or operating mode control as between powering the hybrid motor vehicle by electric motor or internal combustion engine. The exhaust manifold external surface temperature may be utilized to heat a catalyst for processing ambient air surrounding the vehicle.